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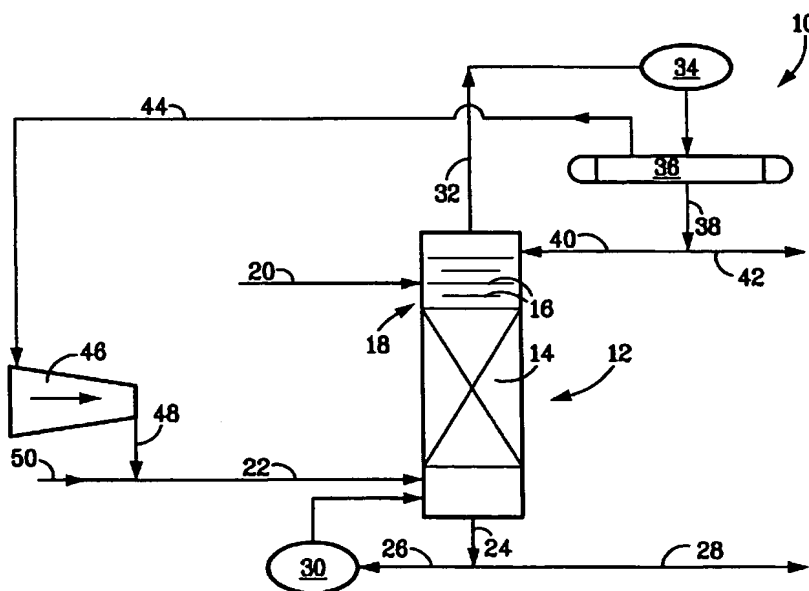
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(54) Title: HYDROGENATION OF OLEFINIC FEEDSTOCKS



(57) Abstract: A process for bulk hydrogenation of an olefin-containing feedstock containing a plurality of different unsaturated olefinic hydrocarbon compounds, for example a feedstock containing from 60 to 100 mass% unsaturated olefinic hydrocarbon compounds, by subjecting the olefinic feedstock to bulk hydrogenation in a catalytic distillation zone containing a hydrogenation catalyst, and in the presence of hydrogen, under conditions favoring bulk hydrogenation to hydrogenate unsaturated olefinic hydrocarbon compounds present in the feedstock into their corresponding saturated compounds, and withdrawing the saturated compounds from the catalytic distillation zone.

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— *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments*

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INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/26153

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : C07C 5/03

US CL : 585/275

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 585/275

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
Please See Continuation Sheet

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5,449,501 A (LUEBKE et al) 12 September 1995 (12.09.1995), the abstract, the entire patent	1-13

☐ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

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"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

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INTERNATIONAL SEARCH REPORT

PCT/US03/2

Continuation of B. FIELDS SEARCHED Item 3:
EAST
search terms: hydrogenation, distillation column reactor